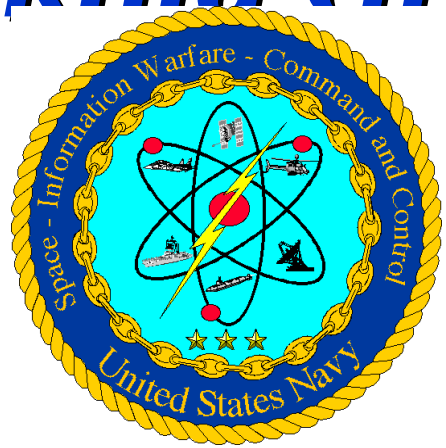
Navy/Marine Corps White Pages Version 2 Requirements Working Group



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2 NOV 1999

Agenda

- Working group goal
- N/MC White Pages current status
- Version 2 requirements discussion
- Remove or re-validate outstanding Version 1 requirements
- Action item review

Goal

Validate and establish version 2.0 requirements

- Propose and discuss version 2.0 requirements
- Review outstanding version 1.0 requirements
- Adopt version 2.0 requirements

N/MC WP Current Status

- Afloat directory “pull” solution under review by CNO N6 (SPAWAR recommended architecture could be deployed in March ‘00)
- All 37 Authoritative Sources providing data
- 305,711 entries
- Directory repositories (San Diego, Norfolk, Naples, Hawaii) operational
- Assessing feasibility of allowing access to selected non-DoN “.mil” users

Authoritative Source Status

NMCI/NET

	10/26/99			
	This Week	Last Week	Delta	%Change
BUMED	23,663	23,669	-6	-0.0%
BUPERS-NAVPERSCOM	3,294	3,272	22	0.7%
CINCLANTFLT	1,163	864	299	34.6%
CINCPACFLT	2,907	2,898	9	0.3%
CINCUSNAVEUR	293	293	0	0.0%
CNET	19,037	18,001	1,036	5.8%
CNO	2,361	2,361	0	0.0%
COMNAVMETOCCOM	2,704	2,682	22	0.8%
COMNAVRESFOR	4,049	4,004	45	1.1%
COMNAVSAFECEN	251	252	-1	-0.4%
COMNAVSPECWARCOM	0	0	0	N/A
COMOPTEVFOR	307	310	-3	-1.0%
COMSC	5,278	5,138	140	2.7%
COMUSNAVCENT	495	491	4	0.8%
FLDSUPPACT	188	189	-1	-0.5%
INSURV	103	103	0	0.0%
NAVAIR	32,090	32,734	-644	-2.0%
NAVAL_OBSERVATORY	129	129	0	0.0%
NAVCOMTELCOM	8,659	8,350	309	3.7%
NAVFAC	9,780	9,751	29	0.3%
NAVHISTCEN	137	136	1	0.7%
NAVPGSCOL	2,919	2,911	8	0.3%
NAVSEA	50,562	50,190	372	0.7%
NAVSECGRU	538	534	4	0.7%

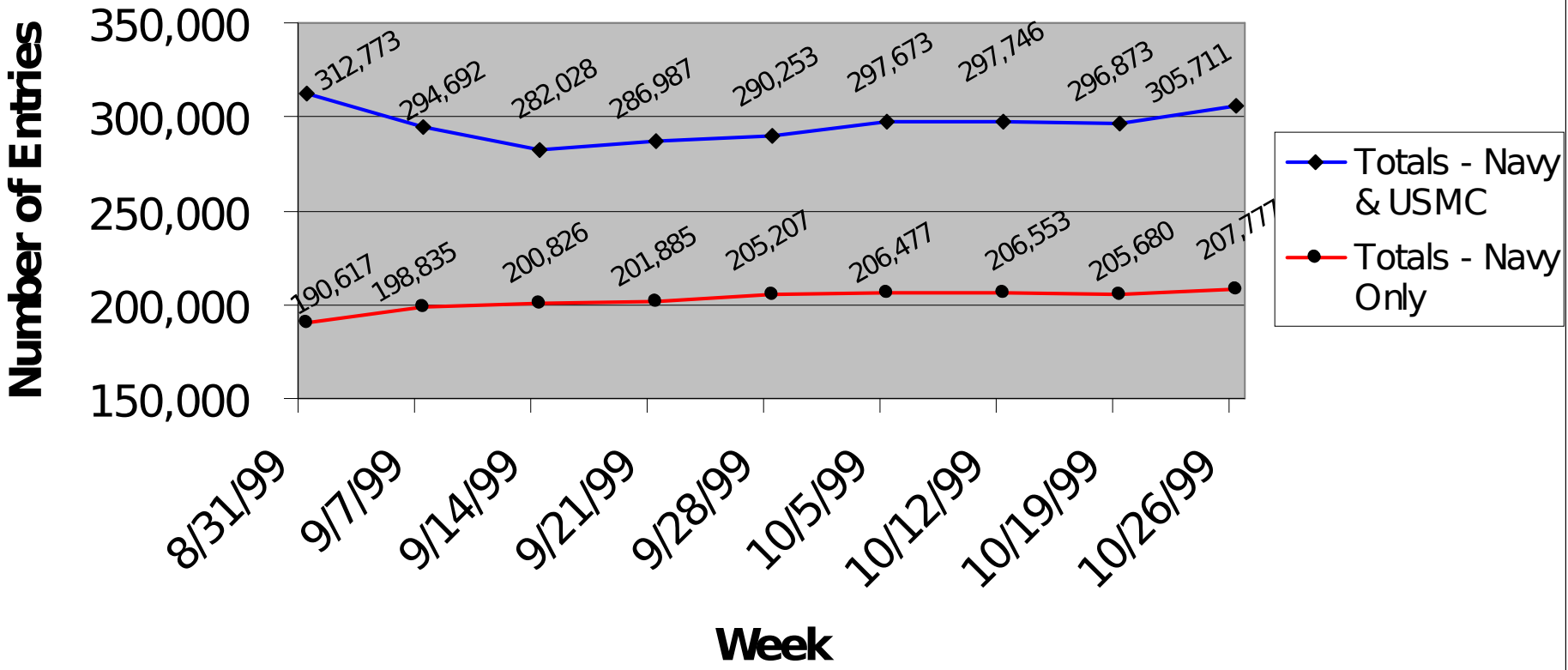
Authoritative Source Status

NIPRNET

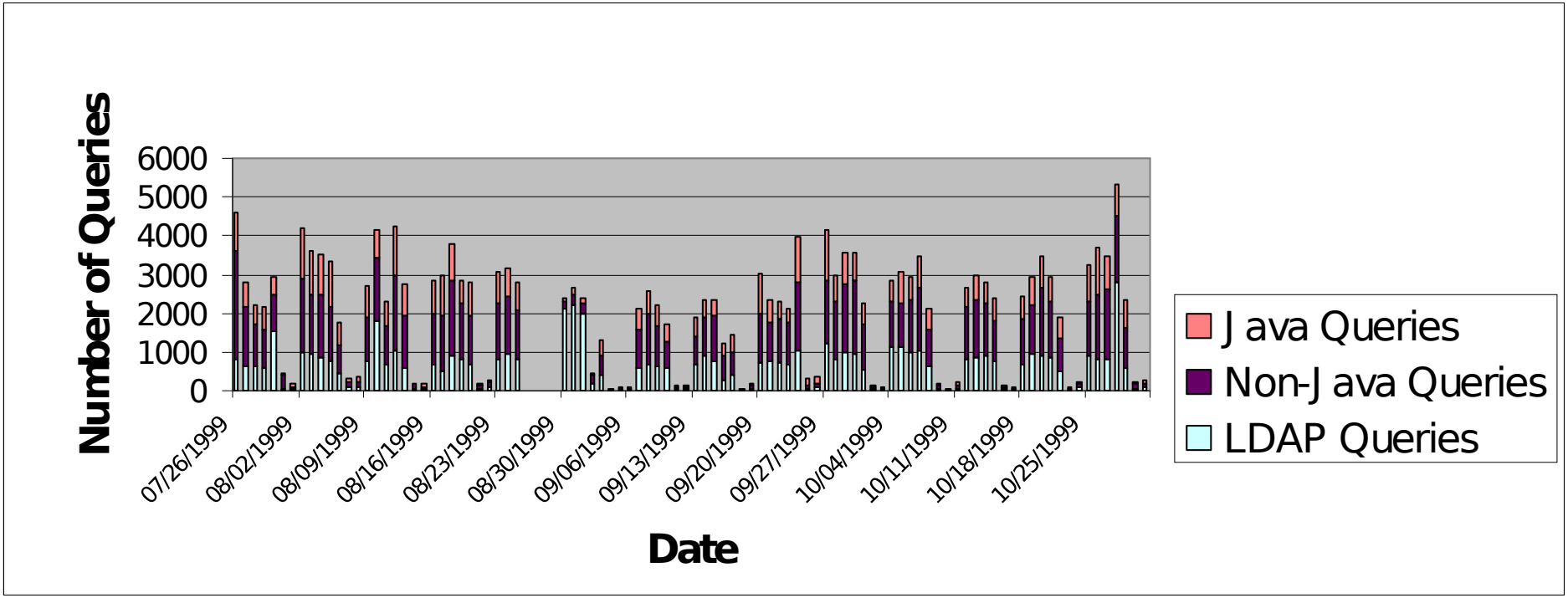
	10/26/99			
	This Week	Last Week	Delta	%Change
NAVSPACECOM	567	565	2	0.4%
NAVSTKAIRWARCEN	394	0	394	1st Entry
NAVSUP	7,597	7,597	0	0.0%
NAVWARCOL	879	873	6	0.7%
NCTSI	196	196	0	0.0%
NDW	450	436	14	3.2%
OJAG-NAVAL_LEGAL_SERVICE_COMMAND	1,574	1,580	-6	-0.4%
ONI	915	910	5	0.5%
ONR	752	754	-2	-0.3%
SECNAV	2,124	2,124	0	0.0%
SPAWAR	13,427	13,419	8	0.1%
SSP	1,455	1,455	0	0.0%
USMC	97,934	91,193	6,741	7.4%
USNA	6,540	6,509	31	0.5%
Totals - Navy & USMC	305,711	296,873	8,838	3.0%
Totals - Navy Only	207,777	205,680	2,097	1.0%

Weekly Progress

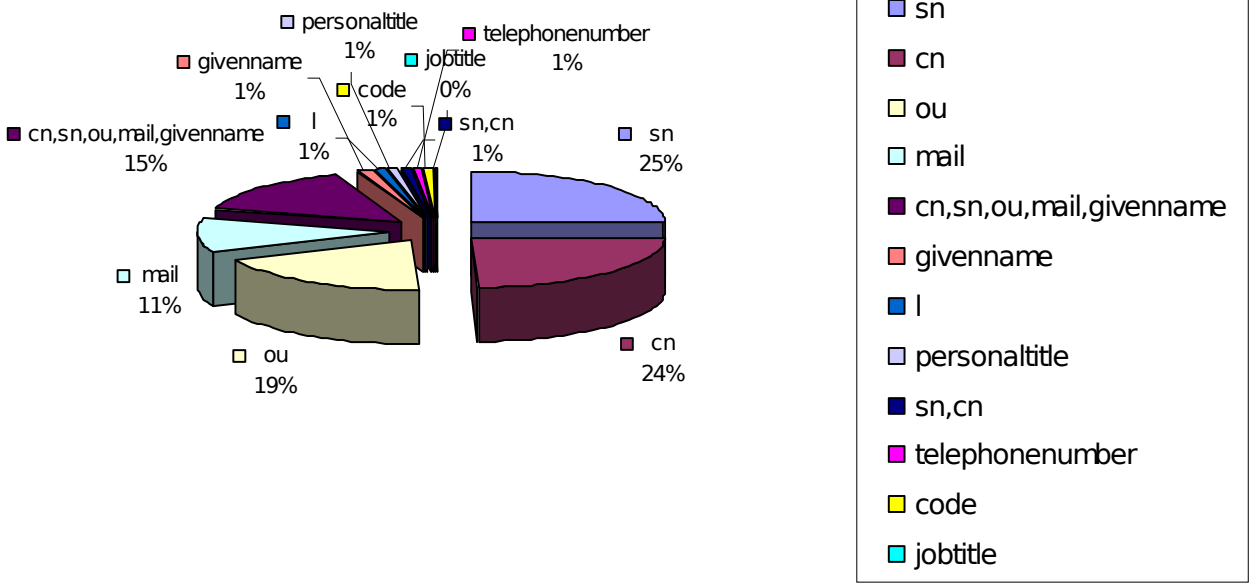
NIPRNET



N/MC-WP San Diego NIPRNET Server Access Stats



Search Categories



Proposed Version 2 Requirements

Functional Requirements	Priority	Remarks
Include Ship name in location or command field	DONE	
Adding Navy / Marine Corps personnel assigned to joint duty	B+	
Performance Requirements		
Operational Requirements		
Display date of last update	**C**	
Non-Navy/USMC access	**DONE**	
Design and implement improvements in Authoritative Source interfaces	A	Re-engineer the infrastructure between the Authoritative Source and N/MC-WP Master to provide delta "push" as change occurs instead of weekly full database "pull"
Support DoD PKI Certificate deployment and operations	A	RD&T the ability to include CRLs into directory allowing validation certs for both DoD PKI Confidentiality Certs for Medium Grade Messaging and Identity Certs for authentication functions
Leverage GCCS-M and pre-Horizontal Integration initiatives		Integrate Large Deck N/MC-WP directory with Horizontal Integration directory
System Requirements		
Create secure connectivity between Authoritative Sources and N/MC-WP master		Design and implement a method to mutually authenticate (with SSL) connections between Authoritative Source and master
Add client authentication		Add ability for clients to use DoD PKI Identity Certificate to create SSL session

Suggested Requirements

- **Full Service Directory to control access to applications(N/A)**
- **Include Afloat email addresses(A+)**
- **Manual/Special Case input of entries for Commanders(Flag Directory) as near term Afloat solution(A)**
- **Provide ability to automatically synchronize White Pages data back to local commands as required(Deferred)**

Suggested Requirements

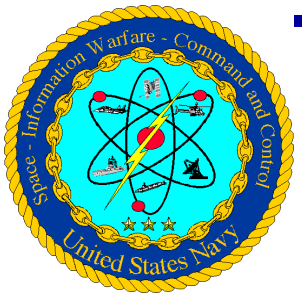
- Inclusion of off-site contractors with *.com email addresses(C policy issue)
- CNO guidelines to Authoritative Sources on removal of inactive email addresses(policy)
- Ability to notify command level POC that directory entry is incorrect(C)
- Attempt to avoid Java Script(A)
- Fax Number, Mailing Address, Home Port, Subject Matter Experts(C)

Suggested Requirements

- Blue/Yellow Pages functionality (C)
- Boolean searches on attributes (A)
- Home button on all search pages(A
- Import address from website into I

Version 1 Requirements

Functional Requirements	Priority	Remarks
Email directory capability on JWICS	A	Fleet interest
Reservists in directory	B	
Capability to link with contractor's email directories		
Performance Requirements		
Expandable for allied access	C	Certificate issues
Update cycle every 24 hours	C	Currently once per week
Operational Requirements		
Afloat (Large Deck) install of Netscape directory and White Page		
System Requirements		


Space - Information Warfare - Command and Control
United States Navy

Backups

ITI IPT Directory Functional Requirements

FUNCTIONAL REQUIREMENTS	PRI	REMARKS
80% implementation of current email directories by 30 Sep 99 (first priority is afloat units)	A	
Ability to select more than one address from directory as recipients for a single message	A	Dependent on email client LDAP implementation
Able to search by text string on Name or Billet/Staff Code	A	Search effectiveness dependent on
Attributes: Name, Rank, Email Addr, Phone #, Org, Billet Code, Location, Billet Description	A	Attribute fields and data populated
Email directory capability on NIPRNET (unclassified network)	A	
Email directory capability on SIPRNET (SECRET network)	A	
Military & DoN civilians in directory	A	
Search results seamlessly integrate into email client (no cut & paste)	A	Implies clients have implemented LDAP sufficiently to enable functionality
"Drill down" capability (to be able to *find* a person's billet within an overall organization)	B	
100% implementation of current email directories	B	
Contractors in directory	B	Allowed but not required
Email directory capability on JWICS (highest classification level network)	B	
Optional capability to link to contractor's email directories	B	
Reservists in directory	B	
Expandable for joint, Allied & contractor access	B	
Optional capability to link to contractor's email directories	B	

Priority Key:
A = Field by 9-30-99
B = Must have but not by 9-30-99

ITTIPT Directory Performance Requirements

PERFORMANCE REQUIREMENTS	PRI	REMARKS
Currency of Information (Update Cycle):		
-- SMTP addresses, Contingency situations: 12 hrs	A	
-- SMTP addresses, Normal Conditions: 24 hrs	A	
-- Other attributes: Contingency: 24 hrs	A	
-- Other attributes: Normal Conditions "best possible" (based on source update cycle)	A	
Access Bursts: 200/sec	A	Scale back if too costly
Access: Reads 100K - 1M /day, Writes 100K /day	A	
Availability: >=99%	A	
Capacity: 1 million records (in each of two networks)	A	
Consistency: less than 10 sec 90% of time	A	
Data accuracy: no less accurate than source data	A	
Max time to restore: 2 hours	A	
Response Time: end to end (incl network performance) avg <=10 seconds) Remote 28.8K and above	A	If network performance lags, the network may need to be upgraded or directory brought closer.
Response Time: end to end (incl network performance) avg <=30 seconds) Remote under 28.8K	A	If network performance lags, the network may need to be upgraded or directory brought closer.
Response Time: end to end (incl network performance) avg <=5 seconds) Hardwire LAN/ISDN link	A	If network performance lags, the network may need to be upgraded or directory brought closer.

Priority Key:
A = Field by 9-30-99
B = Must have but not by 9-30-99

ITI IPT Directory Operational Requirements

OPERATIONAL PERFORMANCE	PRI	REMARKS
Delta updates only	A	
Directory administrator determine "Pull" or "Push" on updates	A	
Server "pull" + Client "pull" from enterprise directory	A	
Users must be able to compose msgs & insert addresses offline/when no network connectivity	A	Leads to design choice of entire/subset of WP aboard ship.

Priority Key:
A = Field by 9-30-99
B = Must have but not by 9-30-99

ITI IPT Directory System Requirements

SYSTEM REQUIREMENTS	PRI	REMARKS
Scalability: designed in extensible schema (digital certificates, mailing addr, etc.) for future growth	A	
Security: data at rest, data in transit, acess control, authentication, firewall	A	
Interoperability: LDAP, HTTP, DAP*, SSL industry standards	A	*Only the portion required to talk to DMS
Maintainability: no additional billets required for Directory Server care & feeding or update process	A	It's not zero, but it should not require an additional full billet.
Survivability: No single point of failure	A	

Priority Key:
A = Field by 9-30-99
B = Must have but not by 9-30-99

N/MC-WP Functional Architecture